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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/026,055	12/20/2001	Ralph H. Johnson	15436.436.4	8713
22913	7590 05/19/2004		EXAMINER	
WORKMAN NYDEGGER (F/K/A WORKMAN NYDEGGER &			NGUYEN, DUNG T	
SEELEY) 60 EAST SOUTH TEMPLE		ART UNIT	PAPER NUMBER	
1000 EAGLE GATE TOWER SALT LAKE CITY, UT 84111			2828	
			DATE MAILED: 05/19/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
·	10/026,055	JOHNSON, RALPH H.				
Office Action Summary	Examiner	Art Unit				
	Dung (Michael) T Nguyen	2828				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 01 M	<u>arch 2004</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) May 17, 04						
May 17, 04	4					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/09/03.	6) Other:	atent Application (P10-152)				

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DETAILED ACTION

Response to Arguments

Applicant's arguments filed on 03/01/04 with respect to claims 1-6 have been fully considered and are persuasive. The 103 rejection has been withdrawn.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-6 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-28 and 45-59 of copending Application No. 10/026020, claims 1-59 of copending Application No. 10/026044.

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This is a provisional obviousness-type double patenting rejection.

The subject matter claimed in the instant application is fully disclosed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common subject matter, as follows:

Claims 1, 3 and 5 of Application No. 10/026055 recite a VCSEL comprising an active region further comprising at least one quantum well having a well depth of at least 40 meV and comprised of InGaAs and further including GaAs barrier layers sandwiching said at least one quantum well and GaAs confinement layers. Further claim 3 recites an AlGaAs confinement layers sandwiching said active region. Furthermore claim 5 recites AlGaAs barrier layers sandwiching said at least one quantum well. The limitations in the claims of this application is basically the same as the limitations in the claims 1, 45 and 53 of the copending application 10/026020.

Claims 1, 45 and 53 of copending application number 10/026020 recites a VCSEL comprising at least one quantum well having a well depth of at least 40 meV and comprised of InGaAsSb. The claims recite alternative substitution elements such as Al, In, N, Sb, with the basic material GaAs. Therefore claims 1-6 and claims 1-28 and 45-59 of copending Application No. 10/026020 are

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considered as the "same invention". Furthermore, the substituted elements are disclosed in each application specification and title of the invention. Thus, the claims are not patentable distinct from each other.

Claims 1, 3 and 5 of Application No. 10/026055 recite a VCSEL comprising at least one quantum well having a depth of at least 40 meV and comprised of InGaAs; GaAs barrier layers; GaAs confinement layers. Further claim 3 recite an AlGaAs confinement layers and claim 5 recites AlGaAs barrier layers. The limitations in the claims of this application is basically the same as the limitations in the claim 1, 37 and 48 of the copending application 10/026044.

Claim 1 of copending Application No. 10/026044 recites a VCSEL comprising at least one quantum well having a depth of at least 40 meV and comprised of GaAsSb. Further claims 37 and 48 recite GaAsSb. Furthermore claim 48 recites AlGaAs confinement layers. The claims recite alternative substitution elements such as Al, In, N, Sb, with the basic material GaAs. Therefore claims 1-6 and claims 1-16 and 19-59 of copending Application No. 10/026044 are considered as the "same invention". Furthermore, the substituted elements are disclosed in each application specification and title of the invention. Thus, the claims are not patentable distinct from each other.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

May 17, 2004

Michael Dung Nguyen